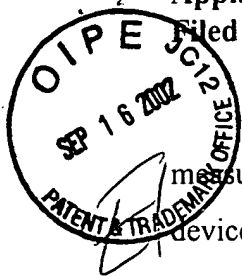


Appl. No. : 09/447,227
Filed : 11/22/1999



b) implanting said device in said host under conditions such that said device measures said glucose accurately for a period of time exceeding about three weeks, wherein said device is anchored in said host by tissue ingrowth.

28. (Amended) A method of measuring glucose in a biological fluid, comprising the steps of:

E2 providing i) a host, and ii) an implantable device comprising a sensor capable of continuous glucose sensing; and

implanting said device subcutaneously, wherein said device is anchored in said host by tissue ingrowth.

30. (Amended) A method of measuring glucose in biological fluid, comprising the steps of:

E3 providing i) a host, and ii) an implantable device comprising a sensor capable of continuous glucose sensing; implanting said device subcutaneously in said host, wherein said device is anchored in said host by tissue ingrowth, and transmitting data from said implantable device to an external device.

E4 31. (Twice Amended) A method of measuring glucose in a biological fluid, comprising the steps of: providing i) a host, and ii) an implantable device comprising a sensor capable of continuous glucose sensing; implanting said device wholly subcutaneously in said host, wherein said device is anchored in said host by tissue ingrowth, and transmitting data by telemetry from said wholly implantable device to an external device.

32. (Twice Amended) A method of measuring glucose in a biological fluid, comprising the steps of:

- a) providing a host;
- b) providing an implantable device comprising a sensor capable of continuous glucose sensing, said sensor having an interface tip;
- c) implanting said device subcutaneously into tissue of said host so as to elicit a foreign body capsule as a result of the response of said host to the introduction of said



Appl. No. : 09/447,227
Filed : 11/22/1999

implantable device, said sensor interface tip communicating with the tissue of said host such that said tip is anchored by tissue ingrowth in said foreign body capsule.

34. (Amended) A method according to claim 32, wherein said sensor tip is anchored in said foreign body capsule by the provision of a capsular attachment layer on said sensor.

35. (Amended) A method according to claim 34, wherein said sensor tip is further anchored by the provision of an angiogenic layer on said sensor.

Please add new Claim 43 as follows:

43. (New) The method of claim 21, wherein said device measures said glucose accurately for a period exceeding 360 days.